



Maryland Public Health Strategy for Climate Change

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Maryland's Climate Change Strategy

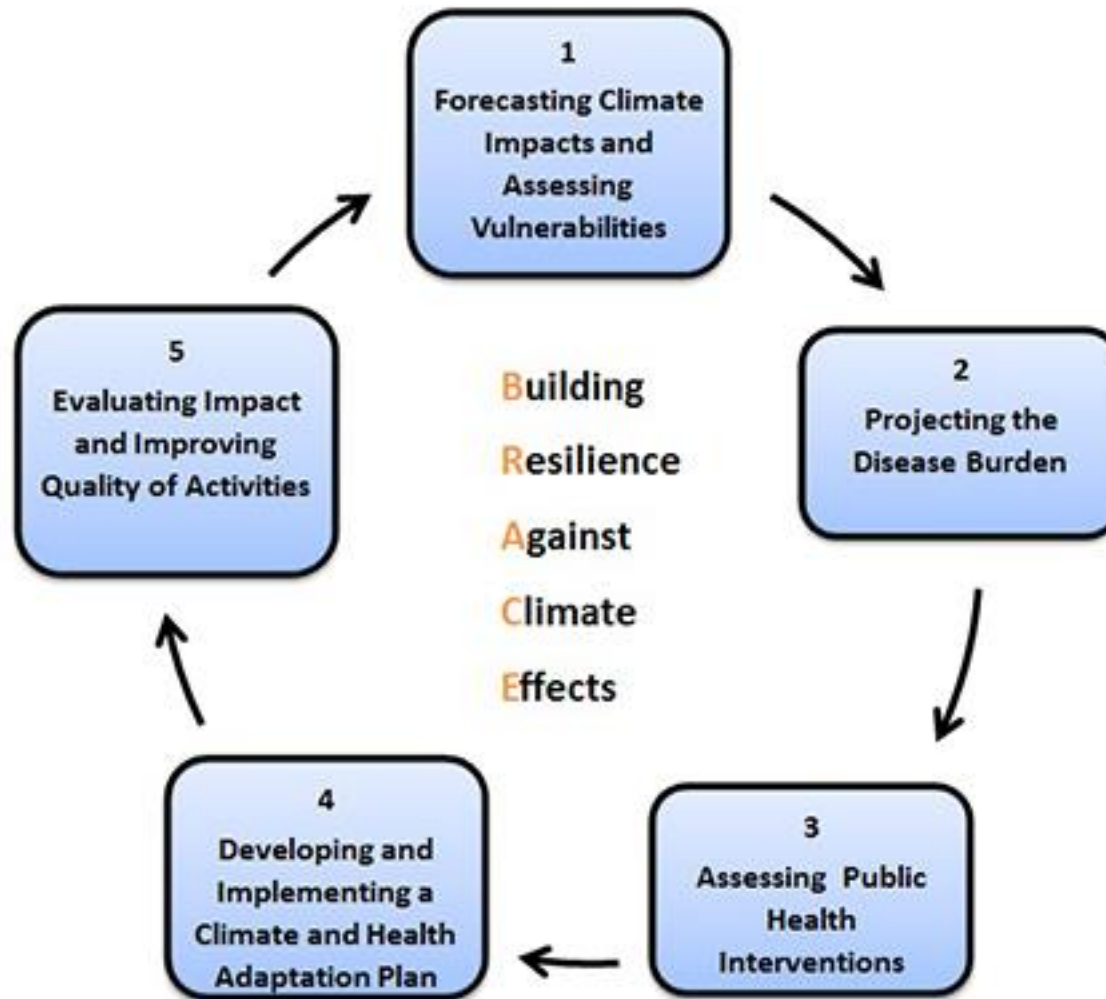
- Greenhouse Gas Reduction Plan
- Adaptation
 - Phase I: Sea-Level Rise and Coastal Storms
 - Phase II: Building Societal, Economic, and Ecological Resilience
 - **Maryland Public Health Strategy for Climate Change**



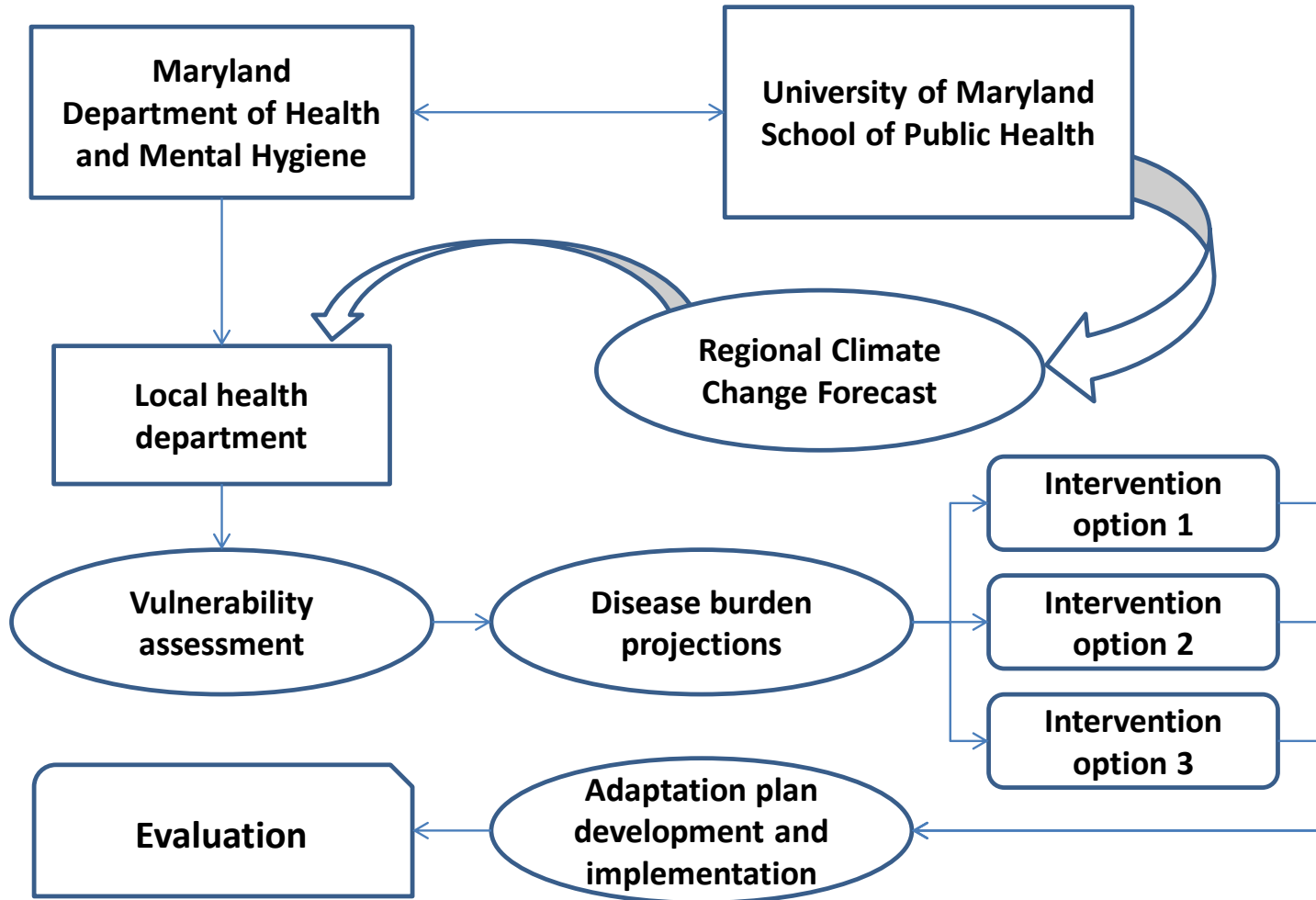
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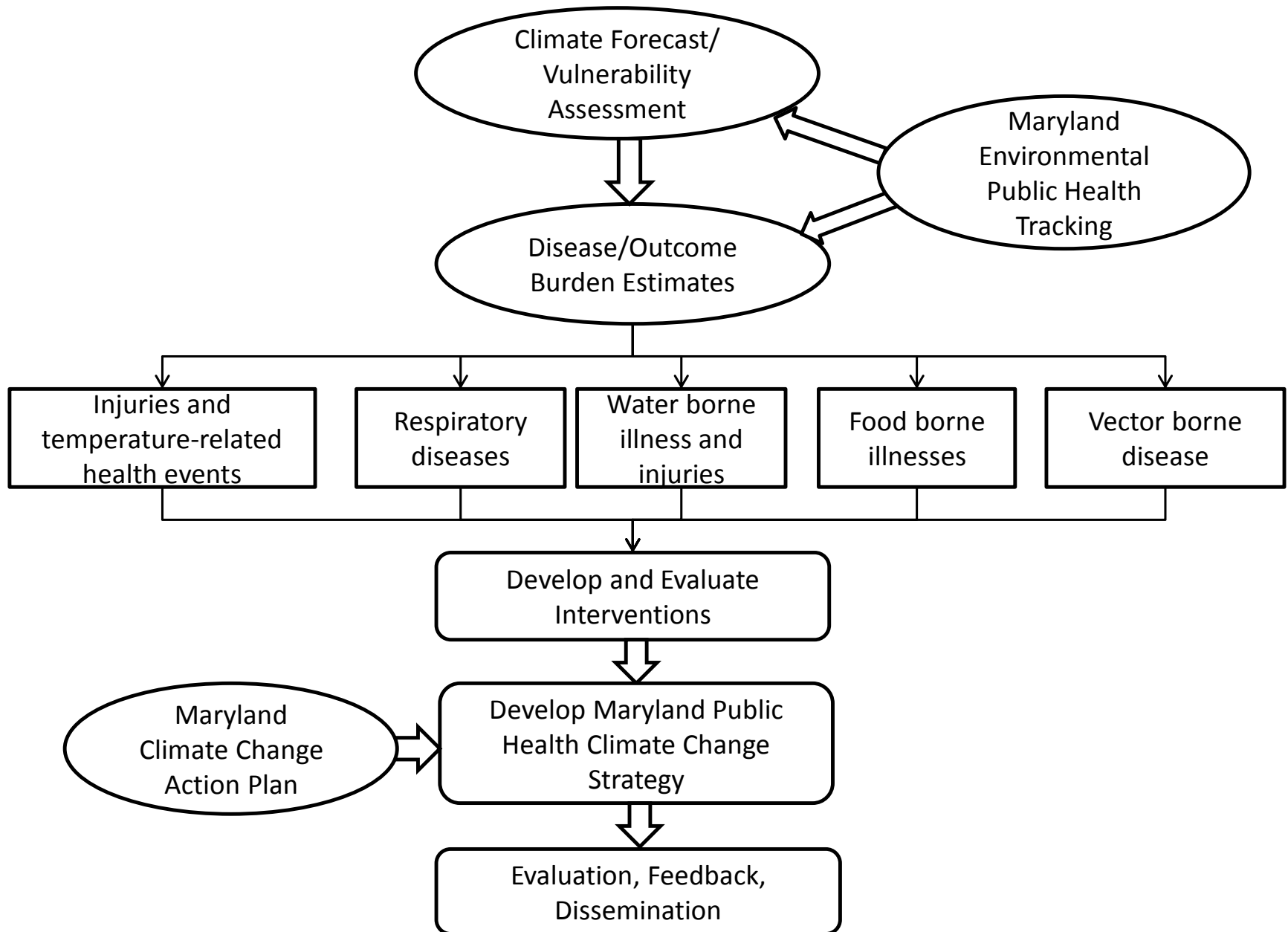


CDC's BRACE Framework



Maryland Public Health Climate Change Strategy





Current Results



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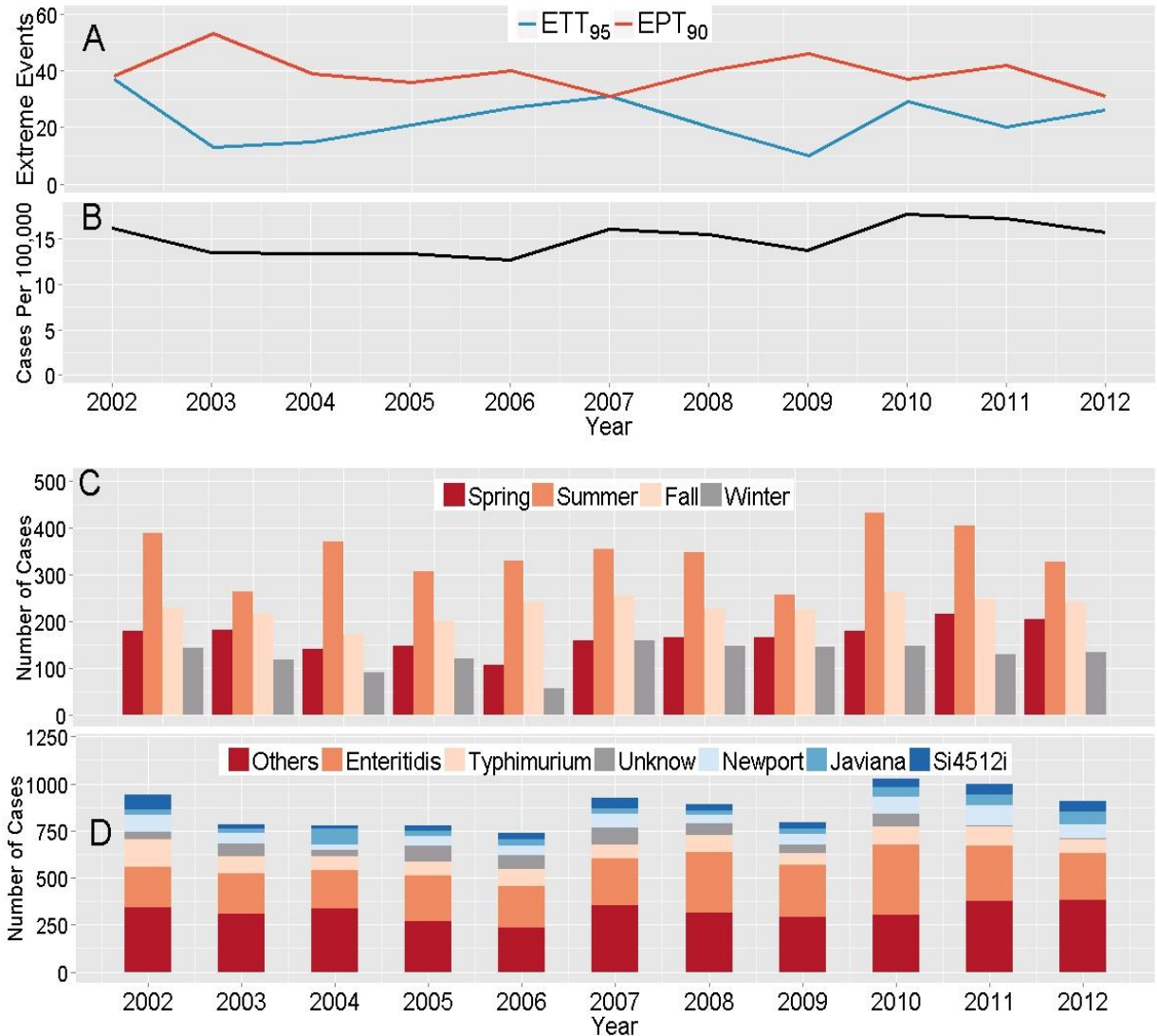
Salmonellosis: Temporal Trends of Exceedance Events and Case Distribution by Season

Extreme Temperature
& Precipitation

Incidence Rate

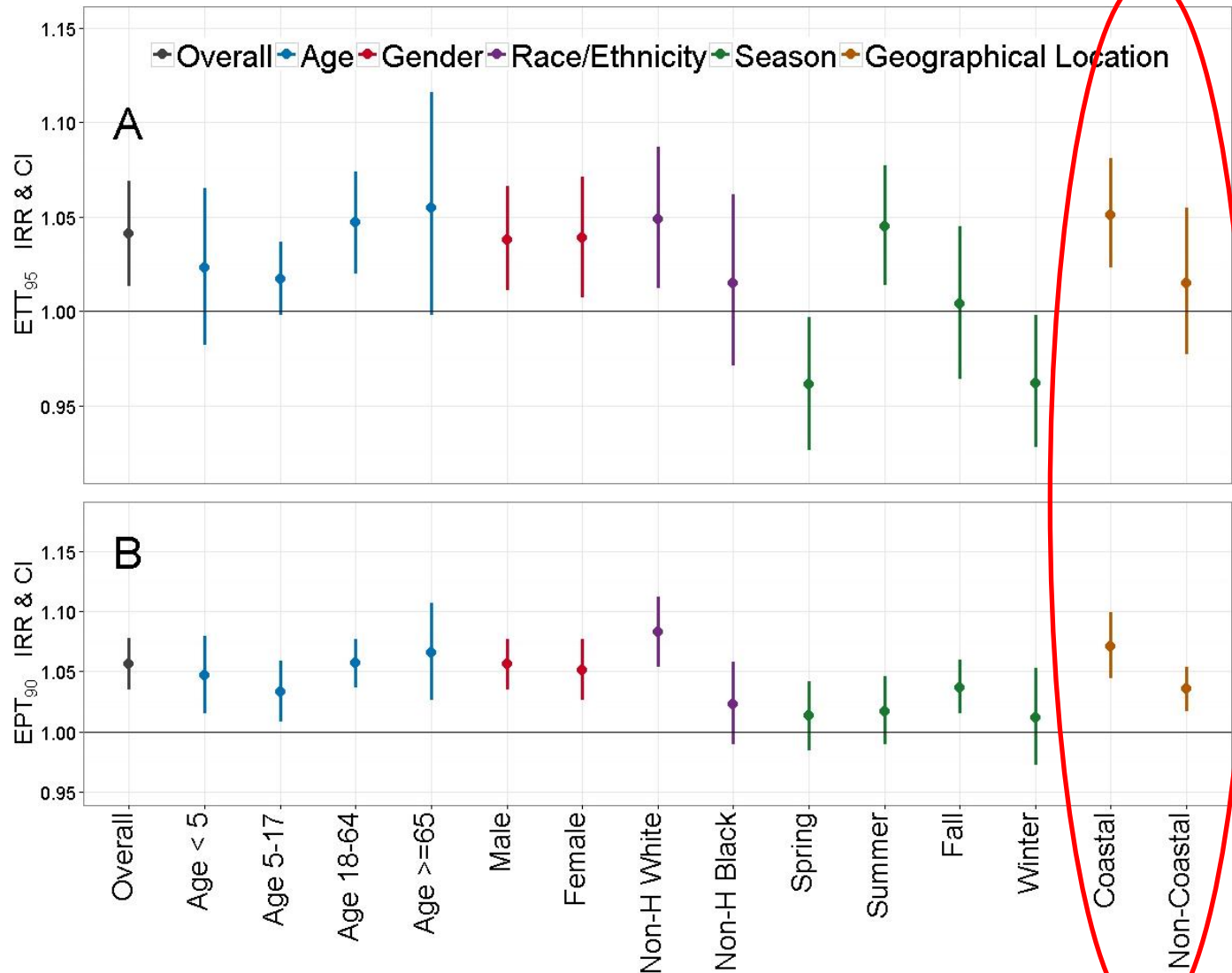
Cases by Season

Cases by Serotype



Salmonellosis: Incidence Rate Ratios w/ 95 % CI for Exposure to Extreme Events

IRR (95%CI) for
Temperature



Salmonellosis: Incidence Rate Ratios w/ 95% CI for Exposure to Extreme Events

Characteristics		Extreme Temp. (ETT ₉₅)	Extreme Precip. (EPT ₉₀)
Overall Model		1.041[1.013-1.069]	1.056[1.035-1.078]
Season			
	Spring	0.961[0.926-0.997]	1.013[0.984-1.042]
	Summer	1.045[1.014-1.077]	1.017[0.989-1.046]
	Fall	1.004[0.964-1.045]	1.037[1.015-1.060]
	Winter	0.962[0.928-0.998]	1.012[0.972-1.053]
Geographical Location			
	Coastal Counties	1.051[1.023-1.081]	1.071[1.044-1.099]
	Non-Coastal Counties	1.015[0.977-1.055]	1.036[1.017-1.054]

Considerably larger effect observed in coastal counties compared to non-coastal counties

Vehicle Injury: Incidence Rate Ratios w/ 95% CI for Exposure to Extreme Events

Characteristics		Extreme Temp. (ETT ₉₅)	Extreme Precip. (EPT ₉₀)
Overall Model		1.01 [1.00-1.02]	1.23 [1.22-1.24]
Season			
	Spring	1.05 [1.03, 1.07]	1.20 [1.18, 1.21]
	Summer	1.09 [1.07, 1.10]	1.24 [1.22, 1.25]
	Fall	0.88 [0.86, 0.90]	1.32 [1.31, 1.34]
	Winter	0.97 [0.96, 0.99]	1.13 [1.12, 1.15]

Evaluation and Implementation

- Results of the vulnerability assessment inform the local intervention strategies
- Evaluation of the strategies and the approach
- Survey of Maryland residents
- Implementation of approach & evaluation into overall State strategy



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Outreach and Education

- Survey, evaluation critical to selection of messages
- Use of Environmental Public Health Tracking platform to support outreach and education – public health action



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Summary

- Maryland's Public Health Strategy for Climate Change is an integral part of overall Maryland response to climate change
- The CDC BRACE framework provides a useful approach to the public health strategy
- Critical to use health data to inform decision-making and response



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